

NCBI Nucleotide banner My NCBI
[\[Sign In\]](#) [\[Register\]](#)

[PubMed](#) [Nucleotide](#) [Protein](#) [Genome](#) [Structure](#) [PMC](#) [Taxonomy](#) [OMIM](#) [Books](#)

Search [Nucleotide](#) for
[Limits](#) [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)
 Display [GenBank](#) Show 5 Send to

Range: from to Reverse complemented strand Features:

I: AJ002140. Reports Lycopersicon escul...[gi:2887279] [Links](#)

- Features
- Sequence

LOCUS LSLESME 5377 bp mRNA linear PLN 15-APR-2005
DEFINITION Lycopersicon esculentum mRNA for DNA (cytosine-5)-methyltransferase.
ACCESSION AJ002140
VERSION AJ002140.1 GI:2887279
KEYWORDS.
SOURCE Lycopersicon esculentum (*Solanum lycopersicum*)
ORGANISM *Lycopersicon esculentum*
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; asterids; lamials; Solanales; Solanaceae; *Lycopersicon*.
REFERENCE 1
AUTHORS Bernacchia,G., Para,A., Pedrali-Noy,G. and Cella,R.
TITLE Isolation of a cDNA coding for DNA (Cytosine-5)-methyltransferase (Accession No. AJ002140) from *Lycopersicon esculentum* (PGR98-008)
JOURNAL Plant Physiol. 116, 446-446 (1998)
REFERENCE 2
AUTHORS Bernacchia,G., Para,A., Pedrali-Noy,G. and Cella,R.
TITLE Isolation of a cDNA coding for DNA (Cytosine-5)-methyltransferase (Accession No. AJ002140) from *Lycopersicon esculentum* (PGR98-008)
JOURNAL Unpublished
REFERENCE 3 (bases 1 to 5377)
AUTHORS Cella,R.
TITLE Direct Submission
JOURNAL Submitted (16-OCT-1997) Cella R., Dipartimento di Genetica e Microbiologia, Universita di Pavia, Via Abbiategrasso 207, 27100, ITALY
FEATURES

source 1..5377 /organism="Lycopersicon esculentum" /mol_type="mRNA" /cultivar="Meraviglia" /db_xref="taxon:4081" /tissue_type="apical meristems" /tissue_lib="lambda ZAP II"	Location/Qualifiers 1..5377 /gene="LesMET" 550..55229 /gene="LesMET" /EC_number="2.1.1.37" /codon_start=1 /product="DNA (cytosine-5)-methyltransferase"
gene 1..5377 /gene="LesMET"	
CDS 550..55229 /gene="LesMET" /EC_number="2.1.1.37" /codon_start=1 /product="DNA (cytosine-5)-methyltransferase"	

```

/protein_id="CAA05207.1"
/db_xref="GI:2887280"
/db_xref="GOA:O49889"
/db_xref="InterPro:IPR001025"
/db_xref="InterPro:IPR001525"
/db_xref="UniProtKB/TrEMBL:O49889"
/translation="MASPQPNSESVLELPNNDKSGHHKKNKRKQDSVSKRKASATGKKE
KKQAVSETIEEPTAGRKRKPRAAACSDFKEKSVHLSKKSSVIELTAKDHCVDDEAVIR
LTAGLOESQRPCRRLTDFVFNHNESEGIPOPFGMSEVDDLFISGLLPLLEDSDLKVAKKG
IRCEFGFGRIEEWAISSGYEDGTPVIWISTETADYDCLPKPSGSYKKFYDHFLAKATACVE
VYKQLKSQSSGGNPDLSLDELLAGVVRAMTGKCFSGVGWSIRDFTVITQGGFIYKELIGL
DDTSKKTDDLFVELPVLASLRDDESKKHETLAPETISSGNGLRIGPKAGNGGDKIVES
GLANGPAPEDEDDLKLAKLKHHEEEWCSLKQKDRNTSSSSKIYIKINEDEIASDYPL
PAYKFTSNEETIDEVIVFDGSGVETYHIDELPRSMHLNWALYNNSDRLSLLSLELMMKACA
DIDVTFIIGSGVMTADDGSGYNFDTDANHSSGGRSAAEDGMPIYLSAICEWNMIEFGS
SMIFISIRTDMAWYRLGKPLKQYAPWYEPVIKTRALAVSIITLLKEQNVRARLSFGEV
IKRVSFHKDDHPAYLISSNDAVERVYVHHGQIIOLQFSEFPDVSIRNCACFGVLSRM
ERHHHTKWVKKKVMQRLEQNLNPRAZMAPSVKRKAMQATTTRLINRWEYSSNSYNS
PEVSKVEADCEVKDDEPDEQEEENEEDDVPERNLDPVPEKAHTPPSTRRHKSRSDSKE
INWDGESIGKTASGEQLFKKARHGHEIAVGDSVLVHEDEPDELGCYVFEYMFKEFLD
GSKMLHGKMMQORGSDTVLGNNAENEREVFLINECFMNLQGDVKESIAVNIRMMPGHQH
RNTNADKLETAKAEADRKRKGGLPTEFYCKSFYRPEKGAFRLPFDKMGMLNGNLCYSCLES
QTDQEKESFKFDMSSFSVYLGTYESVDDFVVYSPDHFTAERGGNGTFKAGRNVGML
AYVVCQQLLEIVPGKGSQAKVDSFTDNVKVRRFFPREDISSDKAYREIYSSIDEHT
VPVEIIKGKCEVRKYYKJDISSDEVPMFDHIFHFCYLYDPLNGSLKLKPQINLILSKIK
KLDDATSRKRKGKKGKEVGDEVGELNETSPQNRLSTLDIFAGCGGLSEQLHSGVTDTN
WAIEYEAPAGDAFRRLNHPKTKVFIHNCHNVLRAVMQKCGDSDDCISTPEASELAAMD
ESELNSLPLPGQVDFINGGPPCGQFSGMNRNQSTWSKVQCEMILAFLSFADYRPRKF
FLLENVRNFVSFNQKQTFRLLTVASLLEMGYAARVSTARSGAPFRSLTVRTIDGLPVGVN
GASKTCIEYQGDPSVWFQKKIRGSSITLSDHISKEMLNLRICRQIPRGPAWDRL
EDEVKLTLNGQLVLDLIPWCLPNTAKRNQWKGLFGRLDWDGNFPTSITDPQMGKVGM
CFPHQDQDRIVTVRECARSGQFPDSYQFAGNILHKHRQIGNAVPPPPLAYALGRKLKEAV
ESKNRLT"

```

ORIGIN

```

1 cccggccaaa tccccccaaa aacctatctc atttgtctc ttctctgtgg agaactcagc
61 aacagcacac ccacattccc tcaacttctc cgccgcacca gcttctact tcacattccg
121 cggaaaaatc accttcaccat ggccaaagcg cagccctctgg tccctctttt atctttccccc
181 ttccgtctc tgccgaccat ctggctgc tggcgagaaat tacaacggaa atcccttcgc
241 ctccgcotc ctctccctt ctcccgccgc ctgtctccct acttctact tctccatttgaa
301 agtcgcacgg cggataacgc gcagcgacga ctgtccgcgc cagctactgt ggcaagtag
361 cagcaacgtc tgaccaggaa actcgccggaa ctccggggaa aacagcgata acaaactcagg
421 ccaacgttgc ggccacaaacg atcgcttcgc caacgacttgc tgccgacggc aacgttgcac
481 cagcaactc cggcgaagca gcgataaccaa ctccaggccag cagtgggca gcaactccgg
541 ttgttgaggaa tggcgctcccca acctaacttccatc tggcgacttgcg tattagaact tccgaaac
601 gacaaaatctg gacacaaaaaa gaacaaacgcg aaacaacggat ctgtgtccaa aaggaaaggca
661 tctgcacttgc gtaagaaggaa aagaaaacgcg gctgttctg aaactatttgaa ggagccact
721 gatggacgtaa aaggcctaaac gcgactgtc gctgttgcg attttaaaaggaa gaaatcttgc
781 catttataaa aaaaatcttc tggatgttgc aacaaaggaa accattttgttgc agacaaaggaa
841 gatgttgcgatc ttatgttgc tggcggttgc caatggatctc aacgacacttgc tggatgttgc
901 acggatttttt ttgttccataa ctccaaaggaa atccacacac ctgttggaaat gtctggatgttgc
961 gatgtatgttgc ttatgttgc ctccatggatc caatggatgttgc caatggatgttgc
1021 gcaaaaaggaa ttatgttgc aggttgggg cgtattggaa atgggttat ctctggatgttgc
1081 gaaggatggaa ctccgttgc atggatctc actggatggaa ctgttggatgttgc
1141 ccctcgatggatgttgc ttatgttgc cacttgggg ccaaggccac gctttggatgttgc
1201 gaggttataaa agaaggatccaa aaggatctc ggagggaaat ctgttggatgttgc
1261 ttccgttgc gggatgttgc agggatgttgc ggccatataat gctttggatgttgc
1321 atccaggacttgc ttgttgc atccgggggg tttatataat agaaggatcttgc
1381 gatcatcaaa agaaggacttgc tcaactttt gtttggatgttgc ctgttggatgttgc
1441 gatggaaaggaa gcaaggacacg gacacttgc caacccagaga ctatatactc tggatgttgc

```


5101 agcttaccaat ttgctggtaa catcttgcac aagcacaggc aaataggaaa tgctgttcca
5161 cctcccttttg catatgcgt tggaaagaaaa ctcaaaggaaatgg 5221 ctcaacttaga acttttttaa gctgtgaatt ttacatgcat gtcaattacc attcacatgg
5281 ccaaattata tcagttactc atttattaaa ttgcagttt caccataaac cctctatTTA
5341 gaggttgggt tcaaacaAAA ttgattaaaa cattact
//

[Disclaimer](#) | [Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

last update 2006-11-04 22:58